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Vimentin Antibody (S82) Blocking Peptide

Synthetic peptide
Catalog # BP2739a

Specification

Vimentin Antibody (S82) Blocking Peptide - Product Information

Primary Accession P08670

Vimentin Antibody (S82) Blocking Peptide - Additional Information

Gene ID 7431

Other Names
Vimentin, VIM

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2739a was selected from the S82 region of human Vimentin. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Vimentin Antibody (S82) Blocking Peptide - Protein Information

Name VIM (HGNC:12692)

Function
Vimentins are class-III intermediate filaments found in various non-epithelial cells, especially mesenchymal cells. Vimentin is attached to the nucleus, endoplasmic reticulum, and mitochondria, either laterally or terminally. Plays a role in cell directional movement, orientation, cell sheet organization and Golgi complex polarization at the cell migration front (By similarity). Protects SCRIB from proteasomal degradation and facilitates its localization to intermediate filaments in a cell contact-mediated manner (By similarity).

Cellular Location
Cytoplasm. Cytoplasm, cytoskeleton. Nucleus matrix {ECO:0000250|UniProtKB:P31000}. Cell membrane {ECO:0000250|UniProtKB:P20152}

Tissue Location

Highly expressed in fibroblasts, some expression in T- and B-lymphocytes, and little or no expression in Burkitt's lymphoma cell lines. Expressed in many hormone-independent mammary carcinoma cell lines.

Vimentin Antibody (S82) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

Vimentin Antibody (S82) Blocking Peptide - Images

Vimentin Antibody (S82) Blocking Peptide - Background

Along with the microfilaments (actins) and microtubules (tubulins), the intermediate filaments represent a third class of well-characterized cytoskeletal elements. The subunits display a tissue-specific pattern of expression. Desmin (MIM 125660) is the subunit specific for muscle and vimentin the subunit specific for mesenchymal tissue.

Vimentin Antibody (S82) Blocking Peptide - References

Whipple,R.A.,Cancer Res. 68 (14), 5678-5688 (2008)Garcia-Verdugo,I.,Biochemistry 47 (18), 5127-5138 (2008)Merdes,A., J. Cell Biol. 115 (2), 397-410 (1991)